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Light-Duty Automotive Technology and Fuel Economy Trends: 1975 Through 2005

Appendix L: Data Stratified by Vehicle Type, Engine Type, and Valves Per Cylinder

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NOTICE

*This Technical Report does not necessarily represent final EPA decisions or positions.
It is intended to present technical analysis of issues using data that are currently available.*

*The purpose in the release of such reports is to facilitate an exchange of
technical information and to inform the public of technical developments.*

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Table L-1

Characteristics of 1986 to 2005 CARB 2 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1986	3625	0.329	29.7	22.9	29.1	25.3	2879	105.9	162	96	14.0	107	0.650	0.0328	36.7	2765	3892
1987	2039	0.190	29.1	22.5	28.5	24.8	2929	106.8	168	99	14.1	107	0.656	0.0330	36.5	2740	3915
1988	861	0.080	31.0	24.1	30.0	26.4	2907	107.6	163	92	14.6	105	0.655	0.0310	38.3	2975	4154
1989	422	0.042	32.2	25.1	31.0	27.4	2840	106.0	139	84	15.2	102	0.686	0.0292	38.7	2985	4143
1990	33	0.004	22.8	17.0	23.7	19.5	4500	149.1	305	140	14.6	110	0.459	0.0311	43.8	2903	6532
1991	1	0.000	33.9	27.4	30.8	28.8	2045	86.4	72	56	15.6	97	0.786	0.0277	29.5	2493	2546

Percent of CARB 2 Valve Cars

MODEL YEAR	DRIVETRAIN	TRANSMISSION		
		FRONT	4WD	MANUAL
1986	65.1	2.1		50.3
1987	61.7	3.5		53.6
1988	64.9	0.6		53.4
1989	76.6	0.2		44.9
1990	0.0	0.0		100.0
1991	100.0	0.0		100.0

Table L-2

Characteristics of 1986 to 2005 CARB 3 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1986	180	0.016	32.3	25.0	31.5	27.5	2707	100.9	118	98	12.7	110	0.835	0.0364	37.4	2793	3791
1987	791	0.074	34.9	27.7	32.6	29.7	2493	93.6	98	76	15.0	102	0.766	0.0303	37.2	2791	3478
1988	735	0.068	33.9	26.9	31.8	28.9	2550	96.3	101	82	14.2	104	0.815	0.0321	37.0	2804	3566
1989	348	0.035	33.8	26.5	32.2	28.8	2611	96.5	105	90	13.4	107	0.860	0.0343	37.7	2804	3642
1990	88	0.010	36.2	29.0	33.3	30.8	2399	90.0	90	79	13.7	105	0.878	0.0331	37.0	2794	3334
1991	3	0.000	41.0	33.3	36.9	34.8	2087	88.6	73	66	14.1	102	0.904	0.0317	36.3	3088	3219
1992	1	0.000	41.0	33.3	36.9	34.8	2087	88.6	73	66	14.1	102	0.904	0.0317	36.3	3089	3219

Percent of CARB 3 Valve Cars

MODEL YEAR	DRIVETRAIN	TRANSMISSION		
		FRONT	4WD	MANUAL
1986	100.0	0.0		55.4
1987	99.2	0.8		53.8
1988	98.2	1.8		53.9
1989	100.0	0.0		52.6
1990	100.0	0.0		55.6
1991	100.0	0.0		100.0
1992	100.0	0.0		100.0

Table L-3

Characteristics of 1986 to 2005 CARB 4 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1987	41	0.004	35.8	28.9	32.4	30.4	2455	92.4	90	68	15.9	99	0.756	0.0277	37.4	2819	3455
1988	150	0.014	34.6	27.6	31.9	29.4	2542	94.5	97	90	13.1	108	0.928	0.0354	37.5	2785	3543
1989	204	0.020	34.4	27.5	31.6	29.2	2576	93.7	97	90	13.2	108	0.928	0.0350	37.7	2746	3534

Percent of CARB 4 Valve Cars

MODEL YEAR	DRIVETRAIN	TRANSMISSION		
		FRONT	4WD	MANUAL
1987	100.0	0.0		35.5
1988	100.0	0.0		28.7
1989	100.0	0.0		72.2

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Table L-4

Characteristics of 1986 to 2005 Diesel 2 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1986	35	0.003	40.5	32.3	37.6	34.5	2906	106.2	123	74	17.8	97	0.584	0.0246	50.5	3779	5358
1987	27	0.003	30.5	24.6	27.7	25.9	3584	110.8	172	129	13.4	113	0.737	0.0355	47.0	2937	5183
1988	1	0.000	37.4	30.2	34.1	31.8	3000	95.9	152	93	14.6	105	0.612	0.0310	47.7	3050	4575
1989	4	0.000	45.5	36.1	42.5	38.7	2813	103.0	102	55	20.6	91	0.541	0.0195	54.5	4017	5615
1990	4	0.000	36.7	29.1	34.2	31.2	3280	107.5	141	93	16.9	102	0.643	0.0273	51.9	3486	5563
1991	11	0.001	35.3	28.0	32.9	30.0	3346	107.4	148	96	16.6	102	0.635	0.0276	50.9	3368	5453
1992	5	0.001	32.3	25.6	30.3	27.5	3691	110.2	154	115	14.9	107	0.737	0.0308	50.7	3113	5593
1996	5	0.001	47.2	36.9	45.2	40.2	3500	119.6	116	90	16.5	100	0.776	0.0257	70.4	4809	8416
1997	3	0.000	49.6	38.6	47.7	42.2	3323	110.1	116	90	15.8	101	0.776	0.0272	70.1	4647	7738
1998	12	0.001	51.1	40.0	48.8	43.5	3000	100.7	116	90	14.6	104	0.776	0.0300	65.3	4385	6578
1999	9	0.001	52.1	41.3	48.8	44.3	3000	99.9	116	90	14.7	104	0.776	0.0300	66.6	4433	6650
2000	21	0.002	49.8	39.0	47.5	42.4	3000	100.0	116	90	14.8	104	0.776	0.0300	64.0	4262	6394
2001	22	0.003	49.1	38.4	47.0	41.8	3103	100.1	116	90	15.2	103	0.776	0.0291	65.1	4214	6519
2002	33	0.004	47.8	37.2	46.2	40.8	3226	101.7	116	90	15.7	102	0.776	0.0281	65.9	4175	6717
2003	29	0.004	49.9	39.1	47.6	42.5	3207	105.7	116	90	15.6	102	0.776	0.0282	68.4	4521	7262
2004	26	0.003	44.8	34.4	44.4	38.3	3362	108.2	116	101	14.9	105	0.869	0.0302	64.4	4154	6979
2005	26	0.003	42.6	32.5	42.5	36.3	3400	110.6	117	110	14.1	108	0.936	0.0325	62.1	4050	6881

Percent of Diesel 2 Valve Cars

MODEL YEAR	DRIVETRAIN	TRANSMISSION		
		FRONT	4WD	MANUAL
1986	72.5	0.0	70.5	10.9
1987	13.4	0.0	13.8	0.0
1988	0.0	0.0	0.0	0.0
1989	91.6	0.0	91.6	0.0
1990	44.8	0.0	44.8	0.0
1991	44.4	0.0	44.4	0.0
1992	20.1	0.0	20.1	0.0
1996	100.0	0.0	100.0	0.0
1997	100.0	0.0	100.0	0.0
1998	100.0	0.0	100.0	0.0
1999	100.0	0.0	96.4	3.6
2000	100.0	0.0	68.6	31.4
2001	100.0	0.0	60.1	39.9
2002	100.0	0.0	43.1	56.9
2003	100.0	0.0	68.5	31.5
2004	100.0	0.0	41.3	58.7
2005	100.0	0.0	44.1	55.9

Table L-5

Characteristics of 1986 to 2005 Diesel 4 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1995	6	0.001	33.1	25.6	32.3	28.2	4177	109.5	188	136	14.0	111	0.727	0.0328	58.9	3096	6453
1996	3	0.000	35.8	27.6	35.2	30.6	4000	110.3	183	134	13.7	112	0.732	0.0335	61.1	3371	6741
1997	3	0.000	33.9	26.1	33.2	28.9	4000	110.1	182	134	13.7	112	0.736	0.0335	57.8	3180	6360
1998	3	0.000	34.9	26.3	35.7	29.8	4000	110.1	182	174	11.1	125	0.956	0.0435	59.7	3284	6567
1999	5	0.001	34.8	26.3	35.5	29.8	4000	110.1	182	174	11.1	125	0.956	0.0435	59.6	3278	6556
2005	5	0.001	35.5	26.6	36.7	30.3	4000	111.6	197	201	9.9	134	1.020	0.0502	60.7	3385	6771

Percent of Diesel 4 Valve Cars

MODEL YEAR	DRIVETRAIN	TRANSMISSION		
		FRONT	4WD	MANUAL
1995	0.0	0.0	0.0	0.0
1996	0.0	0.0	0.0	0.0
1997	0.0	0.0	0.0	100.0
1998	0.0	0.0	0.0	100.0
1999	0.0	0.0	0.0	100.0
2005	0.0	0.0	0.0	100.0

Appendix L

Table L-6

Characteristics of 1986 to 2005 TBI 2 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1986	3132	0.284	28.5	21.9	28.0	24.3	2999	108.8	158	98	14.1	107	0.637	0.0326	36.5	2659	3969
1987	3274	0.305	29.3	22.5	28.9	25.0	2920	107.4	147	97	13.9	107	0.671	0.0330	36.6	2703	3930
1988	3027	0.282	30.7	23.6	30.1	26.2	2840	107.0	141	97	13.7	108	0.709	0.0339	37.3	2829	3992
1989	2345	0.234	29.7	22.7	29.7	25.4	2954	107.9	157	105	13.4	110	0.699	0.0351	37.6	2780	4060
1990	1477	0.168	30.5	23.3	30.4	26.0	2925	105.5	145	101	13.5	109	0.717	0.0344	38.2	2779	4026
1991	1446	0.170	29.5	22.3	30.0	25.2	3032	106.8	164	108	13.3	110	0.698	0.0352	38.2	2731	4099
1992	688	0.085	29.5	22.5	29.5	25.2	3099	109.6	180	111	13.5	110	0.682	0.0349	39.1	2852	4313
1993	605	0.072	30.9	23.6	30.6	26.3	3014	109.2	163	104	13.7	108	0.700	0.0337	39.8	2961	4361
1994	431	0.051	34.2	26.6	32.9	29.1	2622	100.4	118	84	14.3	104	0.741	0.0318	38.8	3045	3880
1995	109	0.012	38.9	30.9	36.1	33.1	2365	102.6	93	73	14.6	102	0.831	0.0308	40.0	3567	4098
1996	86	0.011	42.5	34.2	38.7	36.1	2144	99.9	86	65	14.7	101	0.778	0.0306	39.5	3716	3944
1997	67	0.008	40.3	32.4	36.8	34.2	2201	90.5	75	67	14.8	101	0.889	0.0304	38.4	3175	3471
1998	11	0.001	53.6	42.8	49.5	45.6	2000	89.7	60	55	15.7	97	0.917	0.0275	45.6	4085	4085
1999	8	0.001	50.3	39.9	46.9	42.8	2000	88.0	61	55	15.7	97	0.902	0.0275	42.8	3763	3763
2000	5	0.001	50.8	40.8	46.6	43.2	2000	88.0	61	55	15.7	97	0.902	0.0275	43.2	3800	3800

Percent of TBI 2 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1986	85.4	0.0	10.0	66.2
1987	92.7	0.2	14.9	59.1
1988	95.4	1.3	19.9	69.1
1989	91.6	0.8	14.3	75.2
1990	93.1	1.0	14.0	76.4
1991	80.8	1.0	15.3	81.5
1992	70.1	0.0	19.5	72.1
1993	78.6	1.1	28.0	66.8
1994	100.0	0.0	30.3	58.0
1995	100.0	0.0	39.9	25.4
1996	100.0	0.0	42.9	0.0
1997	100.0	0.0	26.3	0.0
1998	100.0	0.0	100.0	0.0
1999	100.0	0.0	100.0	0.0
2000	0.0	0.0	100.0	0.0

Table L-7

Characteristics of 1986 to 2005 TBI 3 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45											
1989	246	0.025	34.5	27.2	32.6	29.4	2508	101.0	98	90	12.9	109	0.918	0.0359	37.0	2979	3735
1990	164	0.019	35.4	27.8	33.8	30.2	2504	99.8	98	90	12.8	109	0.918	0.0359	37.9	3022	3783
1991	72	0.008	34.9	27.1	33.7	29.7	2602	91.9	97	95	12.7	110	0.979	0.0366	38.8	2754	3570
1993	16	0.002	32.7	25.4	31.7	27.9	2750	91.9	97	90	14.0	106	0.928	0.0327	38.3	2561	3522

Percent of TBI 3 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1989	99.6	0.4	53.4	46.6
1990	100.0	0.0	62.0	38.0
1991	100.0	0.0	59.5	0.0
1993	100.0	0.0	0.0	0.0

Appendix L

Table L-8

Characteristics of 1986 to 2005 TBI 4 Valve Cars

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT/ -MPG	CU-FT/ TON-MPG	
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45			CID	HP								
1988	194	0.018	38.1	30.5	35.1	32.4	2379	94.5	91	71	15.0	101	0.775	0.0298	38.7	3076	3660
1989	199	0.020	36.2	28.8	33.5	30.7	2434	95.8	91	92	12.3	111	1.012	0.0381	37.6	2967	3609
1990	217	0.025	37.3	30.1	33.9	31.7	2520	96.0	91	92	12.7	109	1.011	0.0366	40.0	3050	3843
1991	344	0.040	35.5	28.5	32.7	30.2	2589	95.8	93	97	12.5	111	1.041	0.0375	39.2	2913	3759
1992	155	0.019	32.6	25.6	30.9	27.8	2746	93.1	98	102	12.7	111	1.039	0.0371	38.4	2601	3571
1993	93	0.011	31.1	24.4	29.7	26.5	2856	102.6	106	120	11.6	117	1.121	0.0417	38.1	2750	3908

Percent of TBI 4 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1988	100.0	0.0	57.1	42.9
1989	99.8	0.0	53.9	46.1
1990	100.0	0.0	57.1	42.9
1991	100.0	0.0	45.5	54.5
1992	100.0	0.0	28.3	51.4
1993	99.9	0.0	30.7	65.7

Appendix L

Table L-9

Characteristics of 1986 to 2005 PORT 2 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG	
			LAB 55/45	ADJ CITY	ADJ HWY												
1986	3698	0.336	25.6	19.3	26.0	21.8	3271	109.2	187	136	11.7	119	0.768	0.0414	35.9	2419	3941
1987	3815	0.356	25.2	19.0	25.9	21.6	3307	110.4	192	139	11.6	120	0.762	0.0418	35.8	2412	3977
1988	4713	0.439	26.0	19.5	26.7	22.2	3319	111.0	193	136	11.9	118	0.736	0.0409	36.9	2486	4123
1989	4804	0.480	26.1	19.6	26.9	22.3	3321	112.2	190	135	12.0	118	0.739	0.0406	37.1	2523	4176
1990	4392	0.499	25.9	19.4	27.0	22.2	3406	112.9	194	139	12.0	118	0.740	0.0405	37.8	2526	4283
1991	4135	0.485	26.3	19.6	27.3	22.5	3354	112.8	191	144	11.6	121	0.768	0.0424	37.8	2572	4278
1992	4674	0.577	26.4	19.7	27.7	22.6	3367	112.8	192	147	11.4	122	0.783	0.0432	38.1	2577	4321
1993	4853	0.574	27.3	20.4	28.5	23.3	3289	112.0	186	141	11.6	120	0.773	0.0424	38.4	2644	4327
1994	4545	0.540	26.8	19.9	28.1	22.9	3388	112.7	195	147	11.5	121	0.767	0.0428	38.9	2614	4403
1995	4293	0.457	27.1	20.1	28.8	23.2	3390	113.2	196	157	11.0	125	0.807	0.0456	39.5	2669	4479
1996	3292	0.417	27.0	20.0	28.6	23.1	3427	112.6	196	160	10.8	126	0.825	0.0461	39.7	2627	4479
1997	3398	0.408	27.4	20.3	28.9	23.5	3381	112.9	191	159	10.8	126	0.842	0.0464	39.7	2674	4491
1998	3055	0.383	27.1	20.1	28.7	23.2	3392	111.9	194	164	10.6	128	0.848	0.0478	39.4	2616	4414
1999	2999	0.358	27.1	20.1	28.5	23.2	3418	111.5	193	163	10.6	127	0.853	0.0473	39.6	2601	4425
2000	3211	0.352	27.4	20.4	28.8	23.4	3442	112.0	192	168	10.6	128	0.874	0.0480	40.4	2643	4533
2001	2708	0.322	27.5	20.4	28.9	23.5	3456	112.1	196	171	10.4	129	0.877	0.0489	40.7	2658	4579
2002	2470	0.297	28.2	21.0	29.5	24.1	3425	111.7	196	171	10.2	130	0.886	0.0496	41.4	2719	4636
2003	2096	0.264	27.4	20.3	28.9	23.5	3612	113.5	204	182	10.1	132	0.901	0.0501	42.6	2706	4856
2004	1849	0.227	27.0	19.9	28.7	23.1	3640	115.3	216	191	9.8	135	0.889	0.0524	42.2	2689	4886
2005	1817	0.211	26.8	19.8	28.3	22.9	3772	117.2	226	203	9.7	137	0.900	0.0536	43.5	2720	5115

Percent of PORT 2 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1986	62.8	1.1	23.1	62.5
1987	65.3	0.9	20.1	67.4
1988	69.9	0.5	15.8	71.2
1989	74.3	0.8	13.0	73.5
1990	80.1	0.2	10.1	79.1
1991	81.8	0.1	10.0	80.5
1992	83.0	0.7	8.7	83.1
1993	83.8	0.9	9.7	84.1
1994	78.5	0.8	8.9	86.8
1995	78.4	0.1	10.3	89.6
1996	78.3	0.6	10.1	89.8
1997	81.8	0.5	10.1	89.9
1998	83.9	0.1	9.1	90.8
1999	83.3	0.1	9.2	90.8
2000	81.2	0.0	10.0	89.2
2001	83.6	0.0	8.0	91.4
2002	85.4	0.0	7.5	92.4
2003	80.9	1.4	5.8	93.0
2004	78.6	0.0	9.1	90.3
2005	73.5	0.6	4.3	92.1

Appendix L

Table L-10

Characteristics of 1986 to 2005 PORT 3 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	VOL CU-FT	ENGINE		0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT/ -MPG	CU-FT/ TON-MPG	
			LAB 55/45	ADJ CITY	ADJ HWY			CID	HP								
1986	169	0.015	32.2	25.3	30.6	27.4	2626	92.1	112	105	11.8	114	0.943	0.0401	36.0	2511	3318
1987	185	0.017	32.4	25.2	31.1	27.6	2654	92.7	114	106	11.8	114	0.939	0.0401	36.6	2540	3397
1988	282	0.026	28.9	22.3	28.3	24.7	3051	107.6	131	122	11.9	116	0.942	0.0400	37.7	2664	4056
1989	567	0.057	28.4	21.8	28.0	24.2	3019	102.4	132	121	11.9	116	0.920	0.0401	36.7	2496	3766
1990	386	0.044	29.0	22.3	28.6	24.8	2915	99.9	131	119	11.8	116	0.915	0.0408	36.3	2501	3633
1991	451	0.053	31.5	24.5	30.3	26.8	2710	102.2	113	103	12.4	112	0.921	0.0379	36.5	2773	3734
1992	329	0.041	30.9	24.1	29.7	26.3	2787	101.6	120	112	12.0	114	0.938	0.0396	36.8	2725	3739
1993	209	0.025	35.2	27.9	32.9	29.9	2451	96.8	92	92	12.5	110	0.988	0.0373	36.9	2938	3576
1994	163	0.019	34.9	27.8	32.3	29.6	2501	97.4	95	92	12.8	109	0.962	0.0364	37.1	2929	3623
1995	102	0.011	37.1	28.8	35.8	31.6	2475	99.6	90	91	12.7	109	1.004	0.0368	39.2	3158	3904
1996	74	0.009	36.4	28.2	35.2	31.0	2478	100.7	91	91	12.7	109	1.002	0.0367	38.5	3129	3874
1997	71	0.009	37.4	28.8	36.7	31.9	2500	100.6	90	91	12.7	109	1.006	0.0364	40.0	3222	4028
1998	119	0.015	31.8	24.1	32.0	27.1	3116	104.6	138	150	11.1	124	1.058	0.0459	42.0	2893	4410
1999	175	0.021	30.1	22.8	30.6	25.7	3246	99.5	155	166	10.7	128	1.052	0.0486	41.5	2652	4148
2000	115	0.013	31.8	24.1	32.4	27.2	3134	104.5	129	138	11.9	119	1.046	0.0419	42.3	2878	4432
2001	174	0.021	26.1	19.6	26.7	22.3	3731	103.0	205	219	9.2	142	1.067	0.0571	41.5	2346	4297
2002	168	0.020	25.5	19.2	25.9	21.8	3727	103.0	199	213	9.5	140	1.071	0.0557	40.5	2291	4188
2003	186	0.023	23.8	17.9	24.5	20.4	3971	98.3	233	255	8.4	151	1.098	0.0636	40.7	2035	4037
2004	172	0.021	23.7	17.8	24.5	20.3	4002	98.6	229	248	8.8	149	1.080	0.0612	40.8	2023	4068
2005	217	0.025	23.6	17.7	24.5	20.2	3908	93.7	241	265	8.2	156	1.102	0.0677	39.6	1906	3757

Percent of PORT 3 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1986	100.0	0.0	65.9	34.1
1987	100.0	0.0	53.1	46.9
1988	89.8	0.0	39.2	60.8
1989	84.2	0.0	41.0	59.0
1990	81.9	1.3	42.1	50.6
1991	97.9	1.4	38.7	59.5
1992	90.9	0.1	39.9	60.0
1993	99.0	1.0	56.1	30.9
1994	93.8	0.0	46.0	33.9
1995	100.0	0.0	35.8	35.7
1996	100.0	0.0	32.1	38.3
1997	100.0	0.0	38.8	61.2
1998	55.0	0.0	18.3	81.7
1999	46.9	0.0	14.0	86.0
2000	63.7	0.0	19.1	80.9
2001	15.8	5.9	13.2	86.8
2002	15.1	5.5	12.3	87.7
2003	0.0	3.2	0.3	99.7
2004	0.0	19.8	3.7	96.3
2005	0.0	14.3	16.4	83.6

Appendix L

Table L-11

Characteristics of 1986 to 2005 PORT 4 Valve Cars

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->			WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG	
			LAB 55/45	ADJ CITY	ADJ HWY												
1986	176	0.016	27.8	21.6	27.1	23.7	3032	89.0	125	144	10.6	124	1.150	0.0470	36.2	2120	3201
1987	560	0.052	29.7	23.0	28.8	25.3	3067	98.9	125	130	11.5	119	1.046	0.0423	39.2	2557	3880
1988	772	0.072	28.9	22.3	28.4	24.7	3085	98.2	131	137	11.1	121	1.046	0.0441	38.3	2458	3771
1989	879	0.088	28.6	22.0	28.2	24.4	3082	99.4	132	139	11.0	122	1.054	0.0449	37.8	2456	3759
1990	2047	0.232	28.7	22.2	27.9	24.4	3048	98.9	129	137	11.1	122	1.065	0.0445	37.3	2441	3700
1991	2061	0.242	28.8	22.3	28.1	24.6	3048	98.2	130	140	10.9	123	1.076	0.0453	37.6	2450	3705
1992	2256	0.278	29.0	22.2	28.7	24.7	3118	100.8	132	142	11.0	123	1.080	0.0452	38.8	2544	3914
1993	2680	0.317	28.8	22.0	28.7	24.6	3176	102.9	140	146	11.0	123	1.050	0.0452	39.3	2580	4039
1994	3275	0.389	29.0	22.1	29.1	24.7	3177	103.5	140	148	10.9	124	1.060	0.0457	39.5	2603	4084
1995	4886	0.520	29.1	22.0	29.6	24.9	3186	105.1	144	151	10.6	125	1.067	0.0469	39.8	2653	4182
1996	4430	0.561	29.0	21.9	29.6	24.8	3209	106.7	145	153	10.6	126	1.060	0.0470	39.8	2675	4255
1997	4784	0.574	29.0	21.8	29.7	24.8	3224	106.0	147	156	10.6	127	1.069	0.0477	40.0	2658	4249
1998	4700	0.589	29.4	22.2	30.1	25.2	3254	106.7	145	156	10.6	126	1.082	0.0474	41.1	2717	4384
1999	5042	0.602	28.8	21.7	29.6	24.6	3333	108.0	150	164	10.4	128	1.094	0.0487	41.1	2686	4452
2000	5608	0.614	28.6	21.5	29.2	24.4	3331	108.4	152	168	10.2	130	1.114	0.0500	40.8	2677	4427
2001	5247	0.624	29.1	22.0	29.6	24.9	3323	108.2	149	165	10.3	129	1.109	0.0491	41.7	2742	4513
2002	5394	0.649	29.0	21.9	29.3	24.7	3357	108.9	152	172	10.1	131	1.130	0.0507	41.8	2741	4559
2003	5389	0.678	29.8	22.5	30.2	25.5	3318	108.0	150	171	10.0	131	1.140	0.0510	42.5	2799	4603
2004	5901	0.724	29.8	22.5	30.4	25.5	3372	110.7	153	176	9.9	132	1.151	0.0515	43.4	2882	4813
2005	6358	0.738	29.9	22.6	30.4	25.5	3396	110.9	154	179	9.9	133	1.165	0.0519	43.7	2886	4857

Percent of PORT 4 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1986	56.6	0.0	72.2	23.1
1987	83.4	0.0	43.9	54.1
1988	91.5	1.2	35.2	63.5
1989	85.4	4.5	30.5	66.9
1990	86.7	2.8	31.2	68.1
1991	81.4	4.6	35.4	63.2
1992	76.9	2.5	30.7	68.2
1993	87.2	1.7	27.0	70.8
1994	90.1	0.1	24.2	73.9
1995	84.4	2.1	20.6	77.4
1996	92.3	2.3	17.4	81.5
1997	89.7	2.6	15.2	84.6
1998	90.5	3.0	13.4	86.0
1999	91.6	2.6	11.1	87.8
2000	88.1	2.3	10.5	88.1
2001	87.8	2.9	11.3	87.3
2002	87.6	4.3	11.9	87.2
2003	85.1	3.7	12.6	86.8
2004	85.0	5.8	14.4	82.8
2005	82.4	6.6	14.9	81.5

Appendix L

Table L-12

Characteristics of 1986 to 2005 PORT 5 Valve Cars

MODEL YEAR	SALES (000)	FRAC 55/45	<---- FUEL ECONOMY ---->				WGHT LB	VOL CU-FT	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	CU-FT- -MPG	CU-FT- TON-MPG
			LAB CITY	ADJ HWY	ADJ 55/45	ADJ 55/45											
1995	0	0.000	13.7	9.9	15.0	11.7	4000	50.0	213	375	6.1	191	1.761	0.0937	23.4	586	1172
1996	0	0.000	13.8	10.0	15.3	11.8	3500	50.0	213	375	5.5	203	1.761	0.1071	20.7	592	1036
1997	9	0.001	26.1	19.3	27.8	22.4	3352	98.0	116	166	10.4	129	1.403	0.0494	38.7	2309	3856
1998	71	0.009	26.1	19.2	28.3	22.4	3592	108.9	142	175	10.2	130	1.257	0.0487	40.6	2477	4439
1999	140	0.017	26.2	19.2	28.6	22.5	3576	112.0	138	172	10.3	129	1.270	0.0482	40.6	2554	4559
2000	167	0.018	26.5	19.9	27.3	22.7	3495	109.3	137	181	9.8	133	1.337	0.0515	39.8	2503	4358
2001	257	0.031	26.3	19.8	27.1	22.5	3514	105.2	135	186	9.6	134	1.402	0.0526	39.7	2391	4180
2002	240	0.029	27.1	20.3	28.1	23.2	3615	104.7	131	190	9.6	135	1.495	0.0527	42.1	2465	4419
2003	251	0.032	27.6	20.7	28.5	23.6	3642	108.3	129	188	9.8	134	1.489	0.0517	43.1	2574	4674
2004	199	0.024	27.2	20.4	28.1	23.3	3686	105.4	134	193	9.8	135	1.482	0.0523	43.1	2478	4549
2005	192	0.022	26.9	20.1	27.9	23.0	3745	106.8	139	199	9.7	136	1.475	0.0528	43.3	2490	4636

Percent of PORT 5 Valve Cars

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1995	0.0	0.0	100.0	0.0
1996	0.0	0.0	100.0	0.0
1997	29.6	63.4	39.4	60.6
1998	46.1	53.2	35.9	63.8
1999	62.3	36.9	25.4	74.0
2000	64.3	35.3	39.1	60.9
2001	57.7	42.0	44.1	55.9
2002	66.5	33.2	27.3	69.6
2003	72.1	27.5	26.8	67.0
2004	66.2	33.2	25.8	68.1
2005	60.0	39.4	27.3	66.0

Appendix L

Table L-13 Characteristics of 1994 to 2005 TBI 2 Valve Vans

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->					WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
		FRAC	LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1994	266	0.188	21.3	16.4	20.8	18.2	4212	258	158	12.8	118	0.619	0.0373	38.4
1995	209	0.126	20.2	15.7	19.6	17.2	4295	275	161	12.9	118	0.597	0.0371	37.3

Percent of TBI 2 Valve Vans

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	25.6	0.9	1.4	98.6
1995	33.1	0.0	0.0	100.0

Table L-14 Characteristics of 1994 to 2005 PORT 2 Valve Vans

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->					WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
		FRAC	LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1994	1102	0.777	21.5	16.5	21.3	18.4	4153	221	160	12.3	119	0.738	0.0387	38.3
1995	1377	0.829	22.0	16.7	22.2	18.8	4100	229	159	12.3	119	0.709	0.0389	38.6
1996	1328	0.943	22.1	16.8	22.2	18.9	4215	225	172	11.8	122	0.777	0.0409	40.0
1997	1186	0.937	21.9	16.7	22.1	18.7	4264	225	176	11.7	123	0.790	0.0412	40.1
1998	1334	0.896	22.5	17.0	22.9	19.3	4207	223	181	11.3	125	0.818	0.0431	40.6
1999	1281	0.875	22.0	16.6	22.4	18.8	4331	229	183	11.4	125	0.806	0.0422	40.8
2000	1325	0.784	22.4	17.0	22.8	19.2	4306	226	182	11.5	125	0.812	0.0423	41.4
2001	954	0.774	21.6	16.3	22.0	18.5	4602	241	204	11.0	128	0.855	0.0443	42.8
2002	890	0.716	22.8	17.3	23.1	19.5	4407	226	194	11.0	127	0.865	0.0441	43.3
2003	914	0.742	23.4	17.7	23.8	20.0	4381	226	196	10.9	128	0.874	0.0448	44.1
2004	768	0.692	22.9	17.3	23.4	19.6	4520	235	203	10.9	129	0.869	0.0448	44.3
2005	1025	0.629	23.4	17.6	24.0	20.0	4454	229	201	10.8	129	0.883	0.0451	44.6

Percent of PORT 2 Valve Vans

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	60.9	5.2	0.2	97.1
1995	66.5	9.1	0.1	98.0
1996	73.9	2.1	0.0	98.3
1997	63.9	4.5	0.0	99.5
1998	77.0	3.0	0.0	100.0
1999	72.6	3.1	0.0	100.0
2000	75.2	3.5	0.0	100.0
2001	60.3	11.2	0.0	100.0
2002	78.1	4.2	0.0	100.0
2003	77.8	6.8	0.0	100.0
2004	76.5	3.7	0.0	100.0
2005	84.4	3.8	0.0	100.0

Appendix L

Table L-15 Characteristics of 1994 to 2005 PORT 3 Valve Vans

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45									
1994	30	0.021	21.8	16.6	21.8	18.6	3954	175	149	12.5	117	0.854	0.0379	36.7
1995	16	0.010	20.9	15.9	20.9	17.8	4089	180	152	12.6	117	0.844	0.0372	36.5
1996	14	0.010	20.8	15.8	20.8	17.7	4133	180	152	12.7	117	0.844	0.0369	36.7
1997	13	0.011	20.5	15.7	20.4	17.5	4178	180	152	12.8	116	0.844	0.0365	36.6

Percent of PORT 3 Valve Vans

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	0.0	96.0	1.6	98.4
1995	0.0	100.0	0.0	100.0
1996	0.0	26.6	0.0	100.0
1997	0.0	35.6	0.0	100.0

Table L-16 Characteristics of 1994 to 2005 PORT 4 Valve Vans

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45									
1994	19	0.014	22.8	17.8	22.0	19.5	3893	144	137	13.2	114	0.953	0.0353	37.9
1995	59	0.036	24.5	19.3	23.2	20.9	3679	138	145	12.0	118	1.051	0.0396	38.3
1996	66	0.047	24.8	19.4	23.9	21.2	3817	142	149	12.1	118	1.050	0.0392	40.5
1997	66	0.053	24.9	19.4	24.0	21.2	3831	142	144	12.5	116	1.008	0.0375	40.7
1998	154	0.104	24.6	18.7	24.7	21.0	3975	167	171	11.3	124	1.027	0.0431	41.9
1999	182	0.125	24.6	18.6	25.0	21.0	4137	179	180	11.2	126	1.010	0.0436	43.5
2000	366	0.216	24.2	18.3	24.6	20.7	4167	182	185	11.0	127	1.021	0.0445	43.1
2001	278	0.226	24.2	18.4	24.4	20.7	4233	188	195	10.7	129	1.042	0.0461	43.8
2002	353	0.284	23.7	17.9	24.0	20.2	4362	195	213	10.3	134	1.089	0.0490	44.2
2003	318	0.258	23.5	17.8	24.0	20.1	4430	200	218	10.2	135	1.087	0.0493	44.7
2004	343	0.308	23.9	17.8	24.8	20.4	4520	205	222	10.2	135	1.084	0.0494	46.2
2005	605	0.371	24.7	18.5	25.5	21.1	4484	202	225	10.0	136	1.115	0.0503	47.4

Percent of PORT 4 Valve Vans

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	12.8	15.1	3.5	96.5
1995	57.1	15.7	1.9	98.1
1996	87.7	1.8	0.1	99.9
1997	92.7	2.0	0.0	100.0
1998	90.3	5.6	0.0	100.0
1999	100.0	0.0	0.0	100.0
2000	100.0	0.0	0.0	100.0
2001	100.0	0.0	0.0	100.0
2002	100.0	0.0	0.0	100.0
2003	100.0	0.0	0.0	100.0
2004	99.5	0.5	0.0	100.0
2005	91.4	8.6	0.0	84.0

Appendix L

Table L-17 Characteristics of 1994 to 2005 Diesel 2 Valve SUVs

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45									
1996	0	0.000	18.7	14.5	18.1	15.9	5995	395	180	15.0	113	0.456	0.0300	47.7
1997	0	0.000	18.7	14.6	18.0	15.9	6000	395	180	15.0	113	0.456	0.0300	47.8
1998	0	0.000	19.0	14.5	18.8	16.2	6000	395	180	15.0	113	0.456	0.0300	48.6
2004	1	0.000	22.8	17.1	23.5	19.5	6000	300	310	9.7	145	1.033	0.0517	58.4

Percent of Diesel 2 Valve SUVs

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1996	0.0	100.0	0.0	100.0
1997	0.0	100.0	0.0	100.0
1998	0.0	100.0	0.0	100.0
2004	0.0	100.0	0.0	100.0

Table L-18 Characteristics of 1994 to 2005 TBI 2 Valve SUVs

MODEL YEAR	SALES (000)	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
		FRAC 55/45	LAB CITY	ADJ HWY	ADJ 55/45									
1994	224	0.138	19.1	14.9	18.2	16.2	4747	271	169	13.4	116	0.669	0.0348	37.8
1995	260	0.143	17.8	13.8	17.3	15.1	5164	311	186	13.2	118	0.624	0.0355	38.7

Percent of TBI 2 Valve SUVs

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	0.0	63.4	20.7	79.3
1995	0.0	67.4	8.5	91.5

Appendix L

Table L-19 Characteristics of 1994 to 2005 PORT 2 Valve SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1994	1188	0.732	20.0	15.4	19.7	17.1	4121	240	181	11.1	126	0.760	0.0442	35.3
1995	1272	0.700	20.1	15.5	19.8	17.2	4067	238	176	11.3	125	0.752	0.0435	35.0
1996	1579	0.836	19.6	14.9	19.6	16.7	4398	269	191	11.2	127	0.714	0.0439	36.8
1997	1854	0.757	19.3	14.8	19.2	16.5	4539	272	195	11.3	127	0.723	0.0432	37.4
1998	1981	0.767	19.2	14.7	19.2	16.4	4508	271	195	11.3	127	0.720	0.0434	37.0
1999	2024	0.715	19.2	14.7	19.1	16.4	4543	272	203	10.9	129	0.752	0.0448	37.2
2000	2360	0.751	19.3	14.8	19.1	16.5	4588	269	206	10.9	129	0.774	0.0451	37.7
2001	2059	0.597	19.8	15.3	19.4	16.9	4573	261	212	10.6	131	0.821	0.0464	38.7
2002	2181	0.520	19.4	14.8	19.3	16.6	4796	269	232	10.3	135	0.866	0.0484	39.7
2003	1883	0.457	19.2	14.7	19.1	16.4	5029	278	237	10.5	134	0.856	0.0472	41.1
2004	2121	0.456	19.5	14.9	19.5	16.7	4969	280	244	10.2	137	0.867	0.0490	41.3
2005	1829	0.412	20.1	15.3	20.2	17.2	4860	272	242	10.1	137	0.889	0.0496	41.7

Percent of PORT 2 Valve SUVs

MODEL YEAR	DRIVETRAIN	TRANSMISSION			
		FRONT	4WD	MANUAL	LOCK
1994	0.2	77.5		13.7	84.2
1995	0.0	80.3		15.7	84.3
1996	0.0	74.9		4.2	95.8
1997	0.0	76.1		7.5	92.5
1998	0.0	73.6		5.3	94.7
1999	0.0	66.3		4.6	95.4
2000	0.0	69.5		4.0	96.0
2001	10.5	56.9		3.4	96.6
2002	3.3	64.2		2.6	97.4
2003	1.9	62.3		2.6	97.4
2004	1.3	66.7		4.5	95.5
2005	7.2	65.6		1.1	98.9

Table L-20 Characteristics of 1994 to 2005 PORT 3 Valve SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			LAB 55/45	ADJ CITY	ADJ HWY	ADJ 55/45								
1994	69	0.043	17.7	14.0	16.6	15.1	4378	180	150	13.4	114	0.833	0.0344	33.0
1998	39	0.015	21.3	16.5	20.8	18.2	4500	195	215	10.3	133	1.103	0.0478	40.9
1999	52	0.018	20.3	15.8	19.6	17.3	5000	215	232	10.7	133	1.080	0.0464	43.4
2000	36	0.011	20.8	16.3	19.9	17.7	5500	195	215	12.1	125	1.103	0.0391	48.8
2001	40	0.012	20.8	16.1	20.2	17.7	5500	214	231	11.6	129	1.085	0.0420	48.8
2002	43	0.010	19.1	15.0	18.1	16.2	5000	227	237	10.5	135	1.059	0.0475	40.7
2003	36	0.009	18.8	14.8	17.7	16.0	5138	239	243	10.5	135	1.024	0.0472	41.1
2004	29	0.006	18.8	14.9	17.6	16.0	5529	244	245	11.0	132	1.007	0.0443	44.3
2005	191	0.043	18.3	14.0	18.3	15.7	5896	321	294	10.0	142	0.920	0.0499	46.2

Percent of PORT 3 Valve SUVs

MODEL YEAR	DRIVETRAIN	TRANSMISSION			
		FRONT	4WD	MANUAL	LOCK
1994	0.0	100.0		25.3	74.7
1998	0.0	0.0		0.0	100.0
1999	0.0	31.6		0.0	100.0
2000	0.0	0.0		0.0	100.0
2001	0.0	100.0		0.0	100.0
2002	0.0	100.0		0.0	100.0
2003	0.0	100.0		0.0	100.0
2004	0.0	100.0		0.0	100.0
2005	0.0	50.4		0.0	100.0

Appendix L

Table L-21 Characteristics of 1994 to 2005 PORT 4 Valve SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			55/45	LAB CITY	ADJ HWY	ADJ 55/45								
1994	141	0.087	19.9	15.8	18.5	16.9	4016	191	171	11.4	123	0.906	0.0422	34.0
1995	284	0.156	19.1	15.1	18.1	16.3	4266	189	168	12.1	121	0.887	0.0395	34.7
1996	310	0.164	22.5	17.8	21.0	19.1	3700	164	154	11.7	121	0.955	0.0412	35.4
1997	595	0.243	23.0	18.3	21.5	19.6	3673	165	156	11.5	122	0.961	0.0423	36.1
1998	561	0.217	23.8	18.8	22.3	20.2	3735	161	161	11.4	123	1.009	0.0428	37.9
1999	754	0.266	23.0	18.1	21.7	19.6	3973	175	181	10.9	127	1.052	0.0455	38.9
2000	747	0.238	22.9	18.0	21.5	19.5	3997	172	178	11.1	126	1.047	0.0444	38.9
2001	1351	0.392	22.6	17.5	21.8	19.2	4045	182	195	10.4	131	1.088	0.0482	39.0
2002	1966	0.469	22.1	17.1	21.7	18.9	4178	199	209	10.1	134	1.061	0.0499	39.5
2003	2198	0.534	22.5	17.3	22.2	19.2	4244	203	216	10.0	136	1.074	0.0507	40.8
2004	2489	0.536	22.2	17.0	22.1	19.0	4345	214	229	9.7	139	1.080	0.0526	41.3
2005	2407	0.542	22.5	17.2	22.4	19.2	4384	207	227	9.8	137	1.101	0.0515	42.2

Percent of PORT 4 Valve SUVs

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
1994	4.5	73.1	29.6	70.4
1995	0.0	85.2	19.7	80.3
1996	5.8	51.2	24.1	75.9
1997	5.1	57.5	24.6	71.8
1998	8.4	66.9	18.9	81.1
1999	10.0	66.4	11.4	88.6
2000	10.5	63.0	8.7	91.3
2001	19.2	63.7	5.8	94.2
2002	16.5	62.5	5.2	94.6
2003	19.9	63.4	3.3	92.4
2004	17.2	65.1	3.4	93.3
2005	21.4	63.6	3.4	92.4

Table L-22 Characteristics of 1994 to 2005 PORT 5 Valve SUVs

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			55/45	LAB CITY	ADJ HWY	ADJ 55/45								
2004	8	0.002	18.0	13.6	18.3	15.4	5500	255	310	9.0	150	1.216	0.0564	42.3
2005	15	0.003	18.0	13.6	18.3	15.4	5500	255	310	9.0	150	1.216	0.0564	42.3

Percent of PORT 5 Valve SUVs

MODEL YEAR	DRIVETRAIN		TRANSMISSION	
	FRONT	4WD	MANUAL	LOCK
2004	0.0	100.0	0.0	100.0
2005	0.0	100.0	0.0	100.0

Appendix L

Table L-23

Characteristics of 1994 to 2005 CARB 2 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- LAB 55/45	FUEL ECONOMY ADJ CITY HWY	----> ADJ 55/45	WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
1994	20	0.008	26.8	21.6	24.3	22.7	3000	138	96	13.9	106	0.696 0.0320 34.1
Percent of CARB 2 Valve Pickup Trucks												
MODEL YEAR	DRIVETRAIN	TRANSMISSION										
	FRONT	4WD	MANUAL	LOCK								
1994	0.0	0.0	100.0	0.0								

Table L-24

Characteristics of 1994 to 2005 Diesel 2 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- LAB 55/45	FUEL ECONOMY ADJ CITY HWY	----> ADJ 55/45	WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
1996	3	0.002	19.5	15.1	19.0	16.6	5401	395	180	13.8	116	0.456 0.0334 45.0
1997	1	0.001	18.7	14.6	17.9	15.9	5838	395	180	14.7	113	0.456 0.0309 46.5
1998	1	0.000	18.9	14.6	18.5	16.2	5834	395	180	14.7	113	0.456 0.0309 47.1
1999	0	0.000	18.9	14.5	18.6	16.1	6000	395	180	15.0	113	0.456 0.0300 48.3
Percent of Diesel 2 Valve Pickup Trucks												
MODEL YEAR	DRIVETRAIN	TRANSMISSION										
	FRONT	4WD	MANUAL	LOCK								
1996	0.0	59.1	0.0	100.0								
1997	0.0	68.4	0.0	100.0								
1998	0.0	67.2	0.0	100.0								
1999	0.0	100.0	0.0	100.0								

Table L-25

Characteristics of 1994 to 2005 TBI 2 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- LAB 55/45	FUEL ECONOMY ADJ CITY HWY	----> ADJ 55/45	WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
1994	794	0.297	19.0	14.7	18.7	16.3	4418	313	188	11.3	126	0.604 0.0428 36.0
1995	692	0.305	18.7	14.4	18.5	16.0	4475	313	185	11.6	124	0.596 0.0415 35.9
Percent of TBI 2 Valve Pickup Trucks												
MODEL YEAR	DRIVETRAIN	TRANSMISSION										
	FRONT	4WD	MANUAL	LOCK								
1994	0.0	37.3	13.8	86.2								
1995	0.0	40.3	21.0	79.0								

Appendix L

Table L-26

Characteristics of 1994 to 2005 PORT 2 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
			55/45	LAB	ADJ	ADJ CITY	ADJ HWY	55/45						
1994	1796	0.673	22.1	17.0	21.6	18.8	3914	222	153	12.3	119	0.719	0.0391	37.1
1995	1454	0.640	21.1	16.2	20.8	18.0	4092	236	160	12.2	119	0.717	0.0390	37.4
1996	1692	0.866	20.4	15.6	20.2	17.4	4300	264	182	11.6	124	0.709	0.0419	37.8
1997	2246	0.933	20.2	15.5	20.1	17.3	4480	272	199	11.1	128	0.744	0.0441	38.9
1998	2143	0.887	20.3	15.5	20.3	17.4	4382	263	194	11.2	127	0.751	0.0440	38.3
1999	2349	0.923	19.7	15.1	19.4	16.8	4565	275	208	10.9	130	0.763	0.0453	38.3
2000	2280	0.873	20.3	15.6	20.0	17.3	4391	262	205	10.8	130	0.786	0.0462	38.1
2001	2197	0.872	19.3	14.8	19.1	16.5	4642	279	221	10.5	133	0.795	0.0473	38.3
2002	1958	0.822	19.0	14.6	18.7	16.2	4832	287	236	10.3	136	0.822	0.0487	39.2
2003	2116	0.855	19.6	15.1	19.2	16.7	4749	275	230	10.5	134	0.834	0.0479	39.6
2004	1520	0.755	19.5	15.1	19.1	16.6	4907	282	243	10.2	137	0.857	0.0494	40.8
2005	1499	0.611	19.5	14.9	19.4	16.7	4962	289	257	9.9	140	0.884	0.0516	41.4

Percent of PORT 2 Valve Pickup Trucks

MODEL YEAR	DRIVETRAIN	TRANSMISSION			
		FRONT	4WD	MANUAL	LOCK
1994	0.0	24.6		50.0	48.6
1995	0.0	27.5		47.1	52.5
1996	0.0	27.9		30.2	69.8
1997	0.0	35.2		22.1	77.9
1998	0.0	34.1		23.1	76.9
1999	0.0	45.7		15.1	84.9
2000	0.0	38.1		14.8	85.2
2001	0.0	39.4		9.5	90.5
2002	0.0	44.7		6.1	93.9
2003	0.0	40.4		7.8	92.2
2004	0.0	52.8		5.3	94.7
2005	0.0	42.0		7.3	92.7

Table L-27

Characteristics of 1994 to 2005 PORT 3 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG	
			55/45	LAB	ADJ	ADJ CITY								
1994	57	0.021	19.1	14.9	18.3	16.3	3892	180	150	12.1	118	0.833	0.0387	31.7
1996	89	0.045	25.2	19.9	23.5	21.4	3355	146	134	11.8	118	0.918	0.0404	35.9
1997	131	0.054	24.9	19.8	23.2	21.2	3349	146	134	11.7	118	0.918	0.0405	35.5
2004	56	0.028	19.0	14.7	18.6	16.2	5518	330	300	9.3	147	0.909	0.0544	44.8
2005	314	0.128	18.5	14.2	18.2	15.7	5781	330	300	9.7	144	0.909	0.0520	45.5

Percent of PORT 3 Valve Pickup Trucks

MODEL YEAR	DRIVETRAIN	TRANSMISSION			
		FRONT	4WD	MANUAL	LOCK
1994	0.0	78.4		68.1	31.9
1996	0.0	18.0		76.8	23.2
1997	0.0	20.8		79.6	20.4
2004	0.0	57.8		0.0	100.0
2005	0.0	58.2		0.0	100.0

Appendix L

Table L-28

Characteristics of 1994 to 2005 PORT 4 Valve Pickup Trucks

MODEL YEAR	SALES (000)	FRAC	<---- FUEL ECONOMY ---->				WGHT LB	ENGINE CID	HP	0-60 TIME	TOP SPD	HP/ CID	HP/ WT	TON -MPG
			55/45	LAB CITY	ADJ HWY	ADJ 55/45								
1994	2	0.001	26.7	21.1	25.1	22.7	3500	164	150	11.1	122	0.915	0.0429	39.7
1995	125	0.055	22.6	18.0	21.1	19.2	3612	178	148	11.6	120	0.842	0.0415	34.8
1996	171	0.087	23.6	18.7	21.9	20.1	3505	174	161	10.6	126	0.928	0.0461	35.1
1997	30	0.013	20.4	16.3	18.8	17.4	4085	203	187	10.7	128	0.922	0.0458	35.5
1998	271	0.112	24.3	19.2	22.7	20.7	3489	162	153	11.0	123	0.946	0.0440	36.2
1999	196	0.077	23.6	18.7	21.9	20.0	3544	170	159	10.8	125	0.935	0.0449	35.6
2000	332	0.127	21.6	17.1	20.2	18.4	3993	204	186	10.6	128	0.918	0.0462	36.7
2001	322	0.128	22.2	17.7	20.7	18.9	3932	196	180	10.8	127	0.928	0.0455	37.3
2002	423	0.178	21.8	17.3	20.4	18.6	4031	200	181	11.0	126	0.912	0.0445	37.7
2003	358	0.145	22.4	17.6	21.1	19.1	4005	200	182	10.8	127	0.926	0.0452	38.5
2004	436	0.217	22.3	17.4	21.4	19.0	4074	203	190	10.6	129	0.948	0.0465	38.8
2005	642	0.262	22.2	17.1	21.7	18.9	4350	231	228	9.7	138	0.994	0.0521	41.2

Percent of PORT 4 Valve Pickup Trucks

MODEL YEAR	DRIVETRAIN	TRANSMISSION			
		FRONT	4WD	MANUAL	LOCK
1994	0.0	0.0	100.0	0.0	
1995	0.0	56.7	56.8	32.2	
1996	0.0	48.0	57.4	27.0	
1997	0.0	54.7	26.4	73.6	
1998	0.0	40.4	61.3	25.2	
1999	0.0	40.6	46.4	41.4	
2000	0.0	40.2	29.2	64.6	
2001	0.0	33.6	28.9	64.4	
2002	0.0	31.5	25.3	69.8	
2003	0.0	33.9	25.4	68.5	
2004	0.0	36.8	14.8	77.4	
2005	0.0	38.3	11.6	79.5	